

### **Abstract**

A linear rolling bearing has a guide carriage (1) that is U-shaped in cross-section and has two U-legs (6). The guide carriage (1) is slidably supported through balls (3) on two longitudinal sides of a guide rail (2). Each U-leg (6) comprises on an inner surface opposing the guide rail (2) a ground raceway (10) for the balls (3). The raceway (10) is made by a grinding wheel whose diameter is larger than the diagonal dimension of the carriage cavity (7). According to the invention, a stop surface (12) having a retaining contour for a guide member (4) containing the balls (3) is configured on a guide rail-distal outer surface of each U-leg (6) of the guide carriage (1), and the raceway (10) on one of the two U-legs (6) and the stop surface (12) having the retaining contour on the other of the two U-legs (6) are made in common in one work step by the grinding wheel.